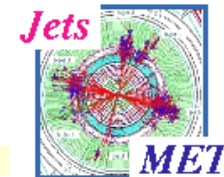
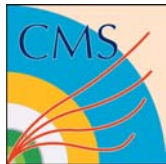


On HCAL Occupancy simulation

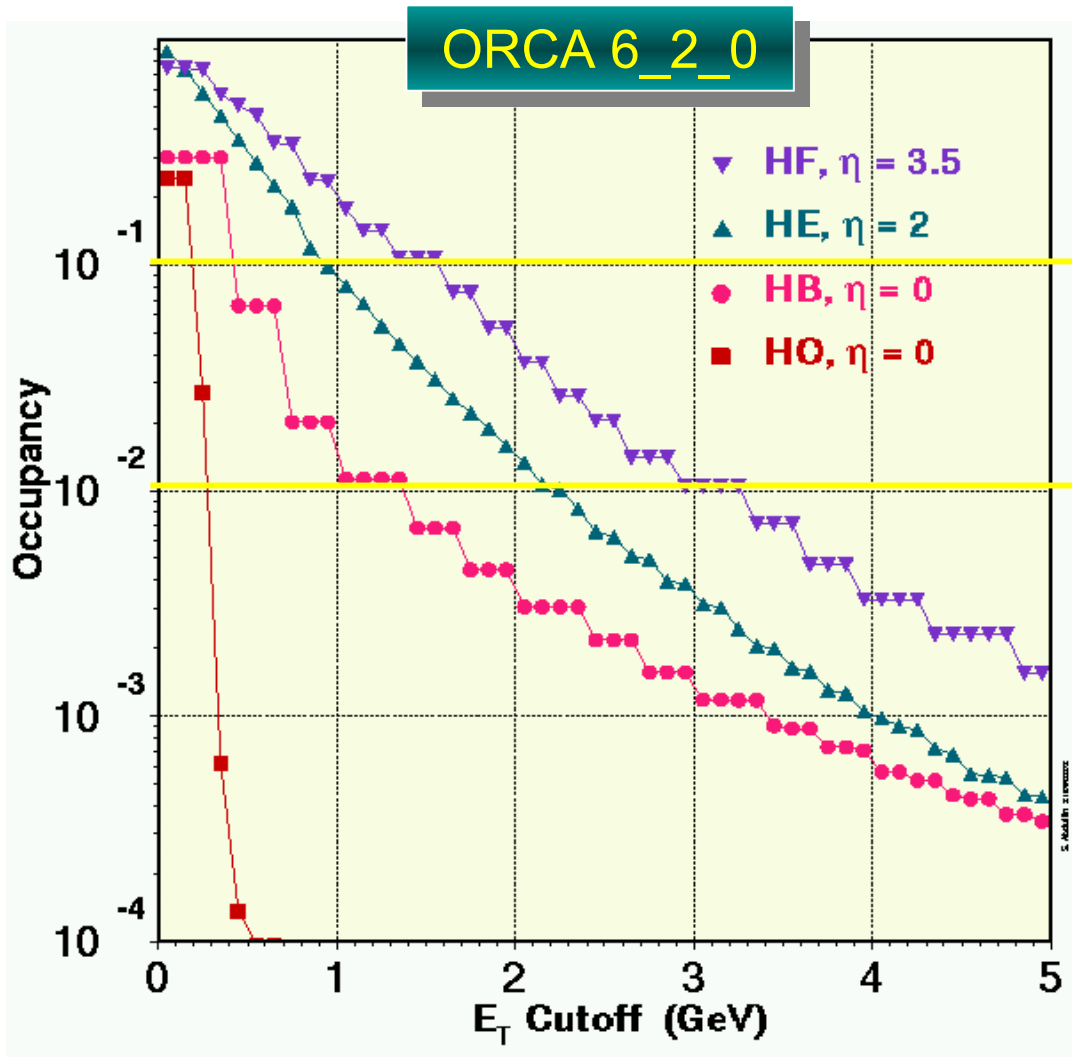
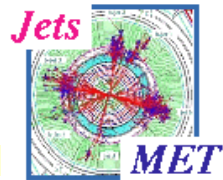


S. Abdullin





Radout Occupancy @ High Lumi



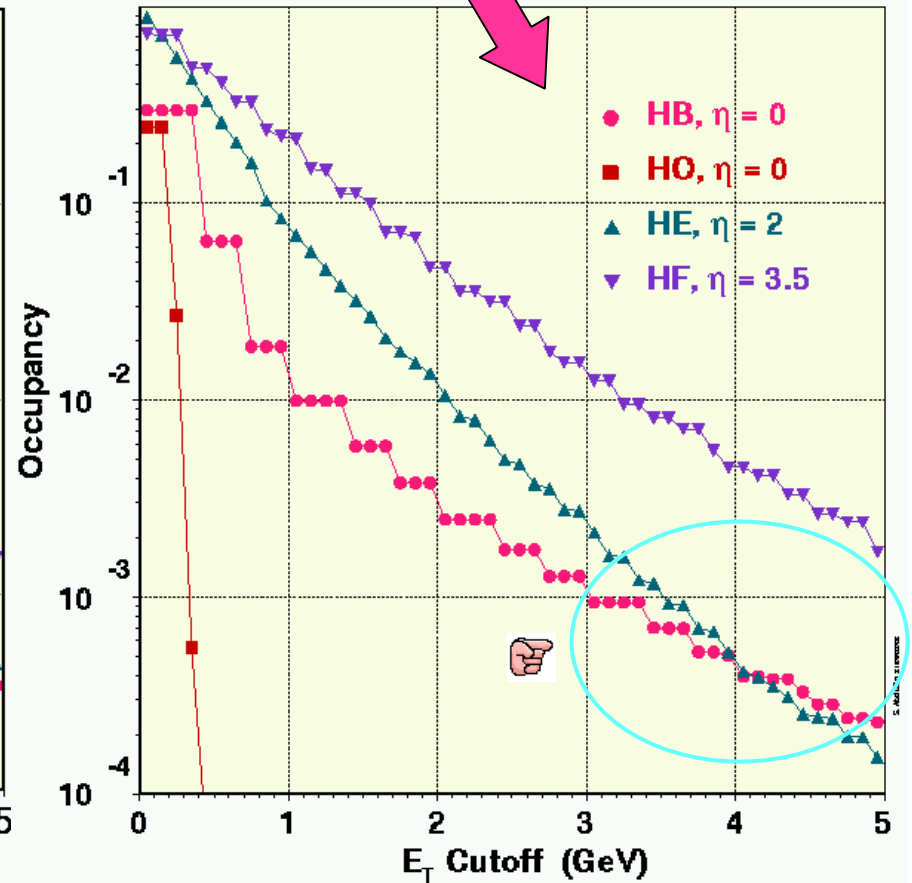
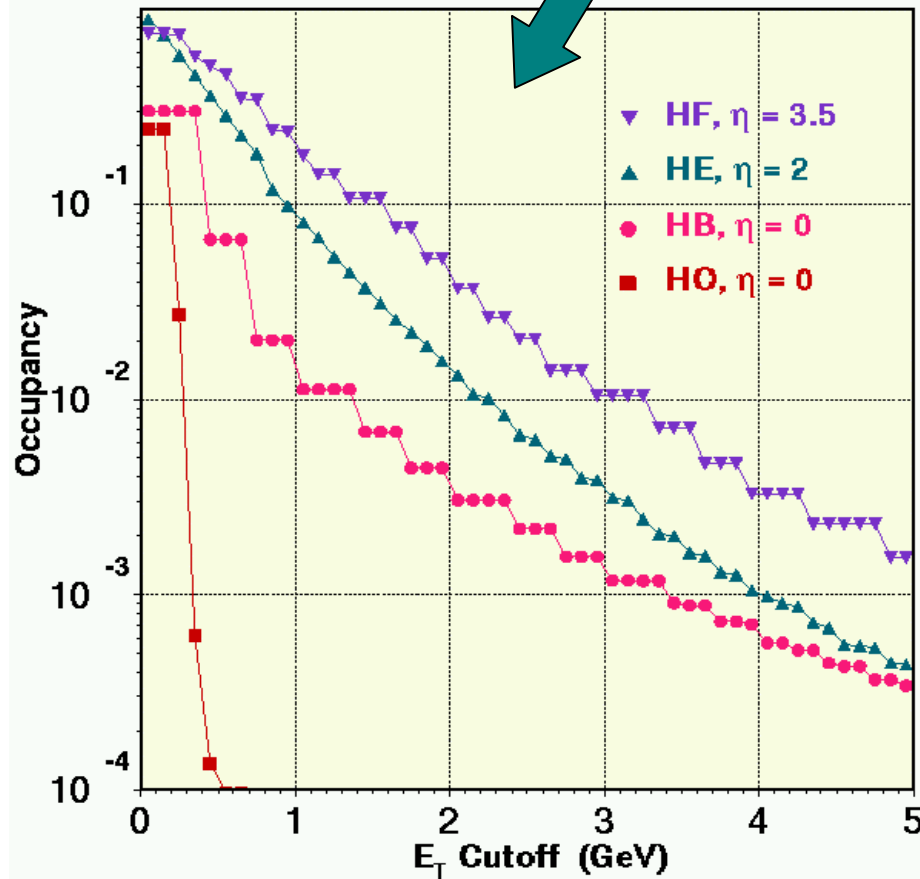
10 %

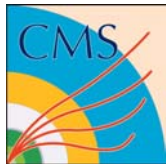
1 %

10,000 high-lumi events

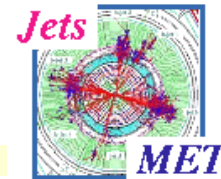
HF : long fiber (Layer 0)

Full Simulation vs Toy MC

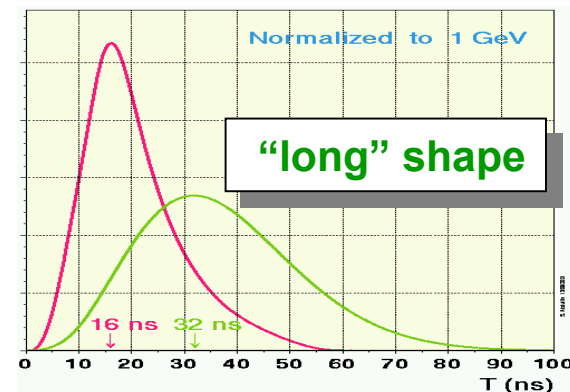
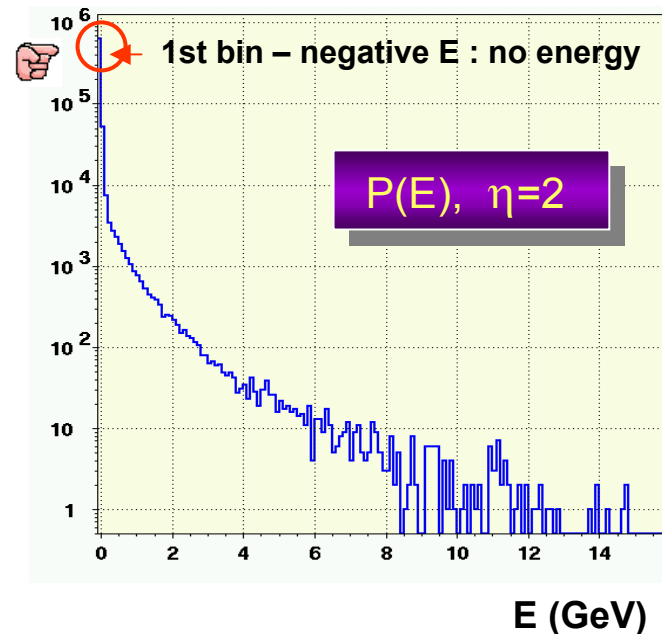




Toy MC : Some Details



- Single min.bias events without :
 - **noise**
 - **photostat**
 - **digitization**
- Prob.(E) for various readouts
- Code with all functionality of the full reconstruction (ORCA), but :
 - **no hit arrival time jitter**
- A series of time buckets filled with “shaped” $\langle 17.3 \rangle$ energy portions according to $P(E)$ + noise in each bucket
- More details in CMS IN 2001/037



Toy MC : w/wo noise

